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# 中国苔草属二柱苔草亚属新资料

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# NEW MATERIAL OF CAREX SUBGENUS VIGNEA FROM CHINA

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**Abstract** In addition, two new sections, *Echinochlomorphae* Y. L. Chang and *Thomsonianae* Y. L. Chang, two new combinations, *C. duriuscula* subsp. *rigescens* (Franch.) S. Y. Liang et Y. C. Tang (=*C. stenophylla* var. *rigescens* Franch.) and *C. rochebrunii* Franch. subsp. *reptans* (Franch.) S. Y. Liang et Y. C. Tang (=*C. remotae* L. var. *reptans* Franch.) are made, and *C. stenophylloides* V. Krecz. is reduced to *C. duriuscula* subsp. *stenophylloides* (V. Krecz.) S. Y. Liang et Y. C. Tang.

**Key words** Carex; subgen. *Vignea*; new taxa

**关键词** 苔草属;二柱苔草亚属;新分类群

组 1. **类稗苔草组** 新组

Sect. 1. **Echinochlomorphae** Y. L. Chang in herb., sect. nov.

Rhizoma breve, lignosum. Culmus altus. Inflorescentia spicato-paniculata; spiculae numerosissimae, androgynae. Squamae femineae ovatae. Utriculi ovati vel late ovati, supra medium scabri, enervii, basi non spongiosi. Stylus basi incrassatus. Stigmata 2.

Typus nominis sectionis: *C. echinochloaeformis* Y. L. Chang et Y. C. Yang in C. Y. Wu, Fl. Xizang 5:436, Fig. 254, 1987.

根状茎短,木质。秆高。花序圆锥状;小穗多数,雄雌顺序,雌花鳞片卵形。果囊卵形或广卵形,中部以上粗糙,无脉,基部无海绵组织。花柱基部膨大,柱头 2。

组 2. **海绵基苔草组**

Sect. 2. **Vulpinae** (J. Carey) Christ

**无芒苔草** 新种 图 1

**Carex earistata** Wang et Y. L. Chang in herb. sp. nov.

Species affinis C. otrubae Podp. sed squamis femineis earistatis, utriculis utrinque manifeste

nervosis, marginibus incrassatis, 3—3.2 mm longis, nuce oblongo ca 1.5 mm longo differt.

Herba perennis. Rhizoma ignotum. Culmus 20—55 cm altus, triqueter, glaber, basi vaginis aphyllis atro-brunneis circumdatus. Folia culmo breviora, 3—5 mm lata, plana, viridia, marginibus scabriuscula, apice acuminata, basi vaginata, ore membranaceo semiorbiculato. Spica subpaniculata, densa, continua vel basi interrupta. Spiculae 8—14, androgynae, ovatae, 5—8 mm longae. Bracteae squamiformes, imae setaceae. Squamae femineae ovatae, 2—2.5 mm longae, ferrugineae, membranaceae, dorso 1-nerviae, interdum superne marginibus albo-hyalinae, earistatae. Utriculi ovato-lanceolati, 3—3.5 mm longi, plano-convexi, ferrugineo-fulvi, dorso pluricostati, ventre 3—4-nervii, marginibus incrassatis et superne scabri, basi spongiosi et rotundati, in rostrum sublongum, dorso fissum ore ventre integro sensim attenuati. Nux arcte inclusa, oblonga, plano-convexa, 1.3 mm longa, ca 0.5 mm lata, basi in stipitem brevem contracta, apice subrotundata et mucronata. Stylus basi incrassatus. Stigmata 2.

**Kansu** (甘肃): Minxian (岷县), in valley, near water, alt. 2200m, 1936. 06. 29. T. P. Wang (王作宾) 4658 (Holotypus, PE).

多年生草本,根状茎未见。秆高 20—55 cm,三棱形,平滑,基部叶鞘无叶,暗褐色。叶短于秆,宽 3—5 mm,扁平,绿色,边缘粗糙,先端渐尖,基部具鞘,鞘口膜质,半圆形。穗状花序近圆锥状,长 2.5—4.5 cm,宽 1—1.5 cm,紧密,下部有间断;小穗 8—14,雄雌顺序,卵形,长 5—8 mm;苞片鳞片状,最下面的刚毛状;雌花鳞片卵形,长 2—2.5 mm,锈色,膜质,背部具 1 条脉,有时上部边缘为白色膜质,无芒;果囊卵状披针形,长 3—3.5 mm,平凸状,锈褐色,背部具多条凸起的脉,腹面具 3—4 条脉,边缘增厚,中部以上粗糙,基部圆形,具海绵状组织,先端渐狭成长喙,背面深裂,腹面全缘。小坚果矩圆形,平凸状,长 1.5 mm,宽约 1 mm,基部收缩为短柄,顶端近圆形,具小尖头,花柱基部膨大,柱头 2。

本种与捷克苔草 *C. otrubae* Podp. 相近似,其不同点为雌花鳞片无芒;果囊两面具明显的脉,边缘增厚。小坚果矩圆形,长 1.5 mm。

组 3 **高节苔草组** 新组

Sect. 3 **Thomsonianae** Y. L. Chang in herb., sect. nov.

Rhizoma lignosum, obliquum. Culmus altus, rigidus, nodis conspicuis, eo basali incrassati, basi vaginis nigro-brunneis in fibras solutis obtectus. Spiculae numerosissimae, ovatae, androgynae, spicam cylindricam formantes. Squamae femineae ovatae. Utriculi ovati vel suborbiculati, dense purpureo-punctati, con spicue marginati, marginibus supra medium dense serrulati. Nux arcte inclusa, ovata vel suborbiculata. Stylus basi non incrassatus Stigmata 2.

Typus nominis sectionis: *C. thomsonii* Boott, Illustr. **1**: 1. t. 1. 1858.

根状茎木质,斜升。秆高,坚挺,节明显,基部的节处膨大,外被黑褐色分裂成纤维状的旧叶鞘。小穗多数,卵形,雄雌顺序;穗状花序圆柱形;雌花鳞片卵形;果囊卵形或近圆形,被密的紫色斑点,边缘明显,中部以上具细齿。小坚果紧密地包于果囊中,卵形或近圆形,花柱基部不膨大,柱头 2。

组 4 **烈味苔草组**

Sect. **Foetidae** Tuckerm ex Kükenth.

**白颖苔草**　亚种

**Carex duriuscula** C. A. Mey. subsp. **rigescens** (Franch.) S. Y. Liang et Y. C. Tang, stat. nov.——*C. stenophylla* Wahlenb. var. *rigescens* Franch. in Nouv. Arch. Mus. Hist. Nat. Paris 2 ser. 7: 128. 1884.

**针叶苔草**　亚种

**Carex duriuscula** C. A. Mey. subsp. **stenophylloides** (V. Krecz.) S. Y. Liang et Y. C. Tang, stat. nov. ——*C. stenophylloides* V. Krecz. in Kom. Fl. URSS **3**: 392 et 141. 1935.

**川西北苔草**　亚种

**Carex enervis** C.A. Mey. subsp. **chuanxibeiensis** S. Y. Liang et Y. C. Tang, subsp. nov.

A typo utriculis membranaceis non nitidis marginibus incrassatis non incurvis differt.

**Sichuan** (四川): Songpan (松潘), alt. 3200m., 1922. 07. 11., H. Smith 2867 (Holotypus, PE).

与种的区别在于果囊膜质，无光泽，边缘加厚不内弯。

组 5　**薮苔草组**

Sect. 5 **Remotae** (Aschers.) C. B. Clarke

**卵穗苔草**　新种　图 2

**Carex ovatispiculata** Wang et Y. L. Chang in herb. sp. nov.

Proxima *C. remotiusculae* Wahlenb., a qua utriculis ovatis vel late ovatis, enerviis vel dorso obscure 1—2-nerviis differt.

Herba perennis. Rhizoma breve, lignosum. Culmus 25—55 cm altus, laevis, basi vaginis brunneis in fibras solutis obtectus. Folia culmo breviora vel culmum subaequantia, 1—2.5 mm lata, plana, flaccida, marginibus scaberulis, apice sensim attenuata. Spiculae 5—11, ovatae, gynandrae, superiores approximatae, inferiores valde remotae, 3—6 mm longae, 3—4 mm latae; bracteae inferiores foliaceae, inflorescentiam superantes, superiores setiformes vel squamiformes. Squamae femineae ovatae, 2—2.2 mm longae, albidae, viridi-carinatae, acuminatae vel subacutae. Utriculi squamis longiores, ovati, ca 2.5 mm longi, 1 mm lati, membranacei, stramineo-virescentes, saepe enervii vel seldom dorso obscure 1—2-nervii, marginibus cinereo-virides anguste alati, supra medium scabri, basi truncati, in rostrum breve bidentatum abrupte contracti. Nux arcte inclusa, elliptico-obovata, plano-convexa, ca 1.5 mm longa. Stylus basi incrassatus. Stigmata 2.

**Sichuan** (四川): Baoxing (宝兴), Meilichuan (梅里川), alt. 2500m, along the stream 1936. 06. 30. K. L. Chu (曲桂龄) 3037 (Holotypus PE)

多年生草本。根状茎短，木质。秆高 25—50 cm，平滑，基部具褐色叶鞘，常细裂成纤维状。叶短于秆或与秆近等长，宽 1—2.5 mm，扁平，质软，边缘微粗糙，先端渐尖。小穗 5—11，卵形，雌雄顺序，上部者接近，下部者远离，长 3—6 mm，宽 3—4 mm；苞片下部者叶状，长于花序，上部者刚毛状或鳞片状；雌花鳞片卵形，宽 2—2.2 mm，微白色，中

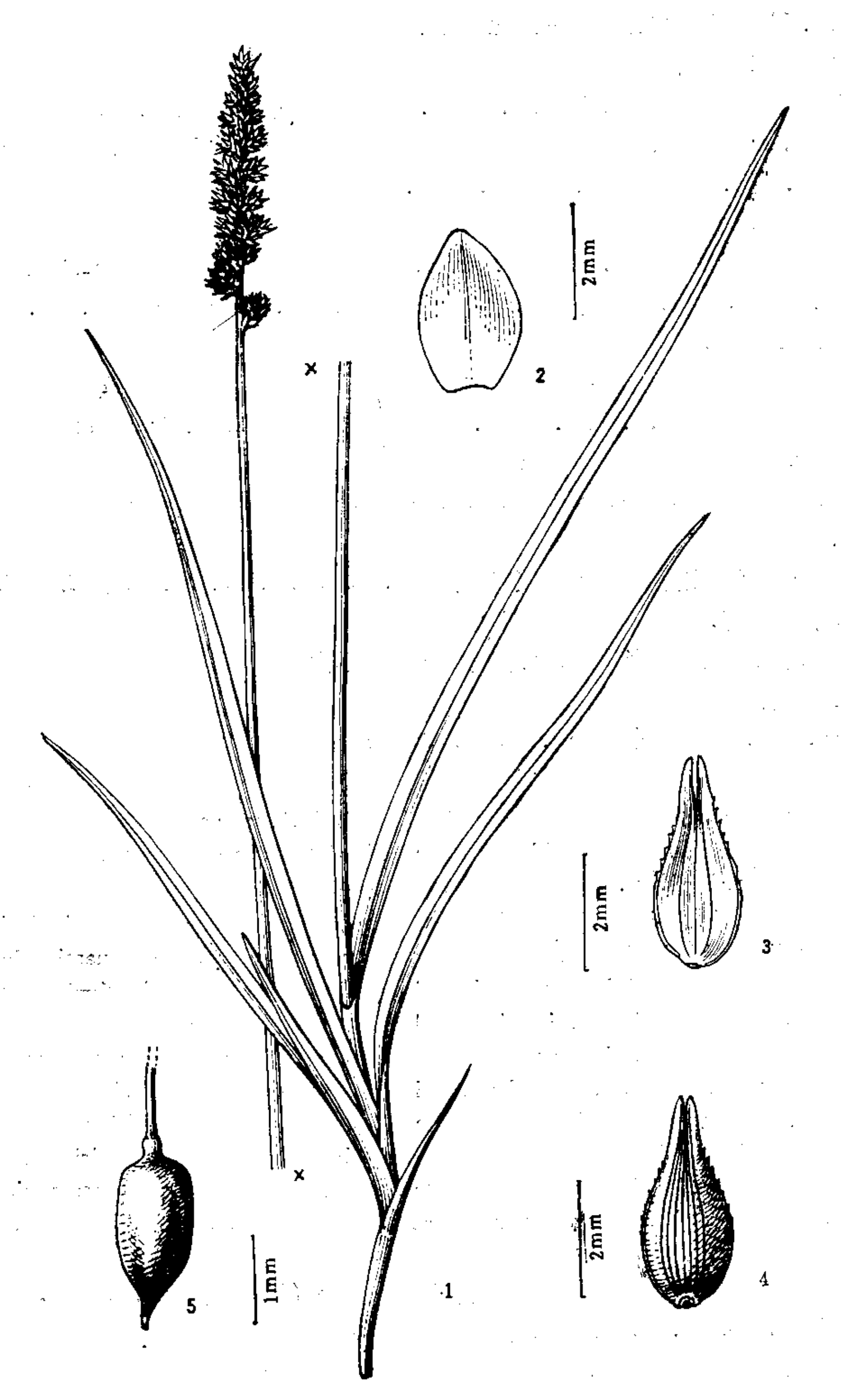



图 1 无芒苔草 *Carex earistata* 1.植株 habit; 2.雌花鳞片 pistillate scale; 3.果囊腹面 ventral view of utricle; 4.果囊背面 dorsal view of utricle. 5.小坚果 nut. (冀朝祯绘)

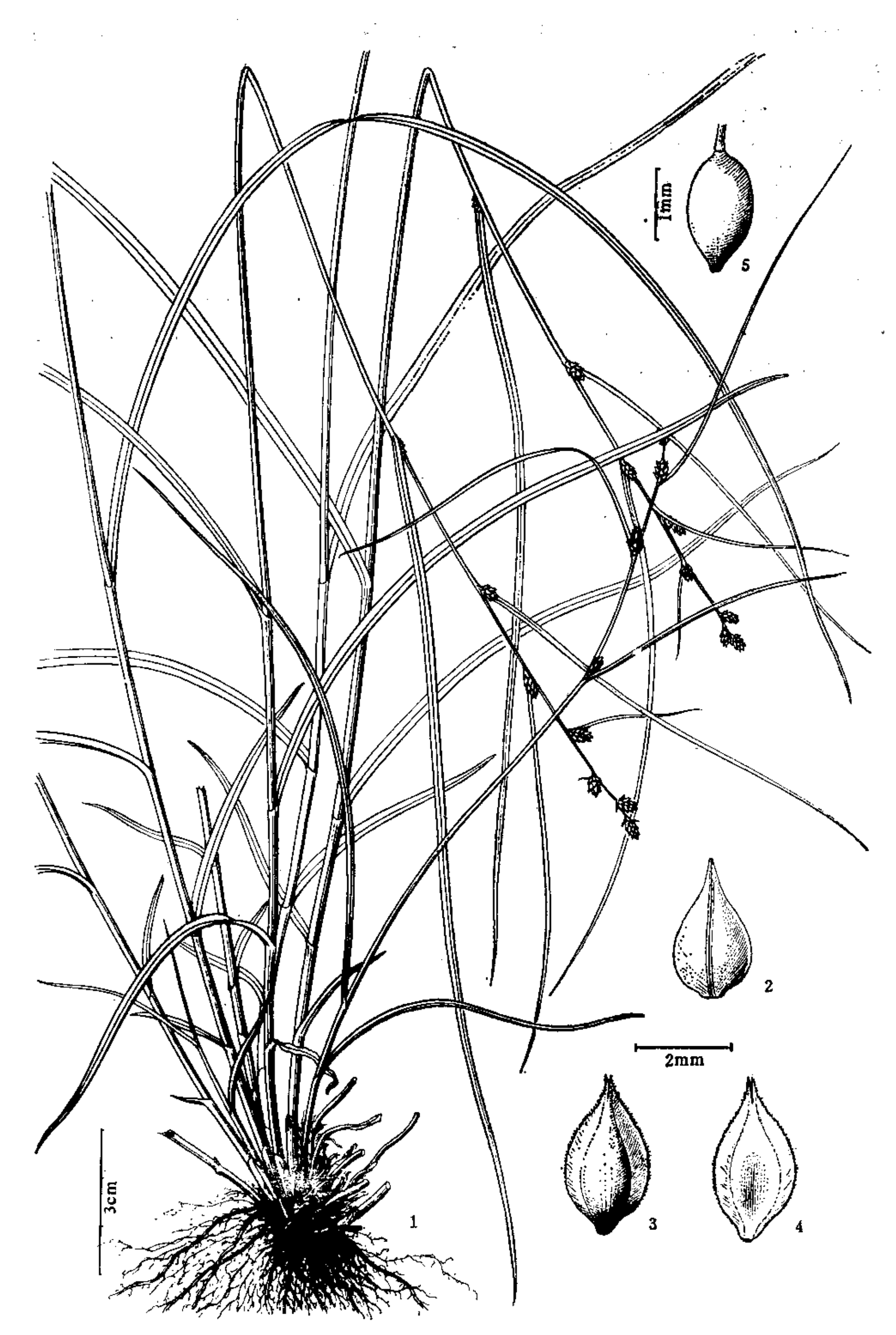



图 2　卵穗苔草 *Carex ovatispiculata* 1.植株 habit; 2.雌花鳞片 pistillate scale; 3.果囊背面 dorsal view of utricule; 4.果囊腹面 ventral view of utricule; 5.小坚果 nut. (冀朝祯绘)

间绿色，具1脉，先端渐尖或微锐尖；果囊长于鳞片，卵形或宽卵形，长约2.5 mm，宽1 mm，膜质，淡黄绿色，通常无脉或稀背面具1—2条不明显的脉，边缘具灰绿色的狭翅，中部以上粗糙，基部楔形，顶端急缩成短喙，喙口二齿裂。小坚果紧密地包于果囊中，椭圆状倒卵形，平凸状，长约1.5 mm，花柱基部膨大，柱头2。

本种与丝引苔草 *C. remotiuscula* Wahlenb. 相近，但本种的果囊卵形至广卵形，无脉或仅背部具1—2条不明显的脉，极易区别。

**匍匐苔草** 亚种

**Carex rochebrunii** Franch. subsp. reptans (Franch.) S.Y. Liang et Y. C. Tang, stat. nov.—— *C*. *remotae* L. var. reptans Franch. in Nouv. Arch. Mus. Hist. Nat. Paris 3 sér. **8**: 235. 1896.